Supplementary Materials

The Ca^{2+} Channel Blocker Verapamil Inhibits the In Vitro Activation and Function of T Lymphocytes: A 2022 Reappraisal

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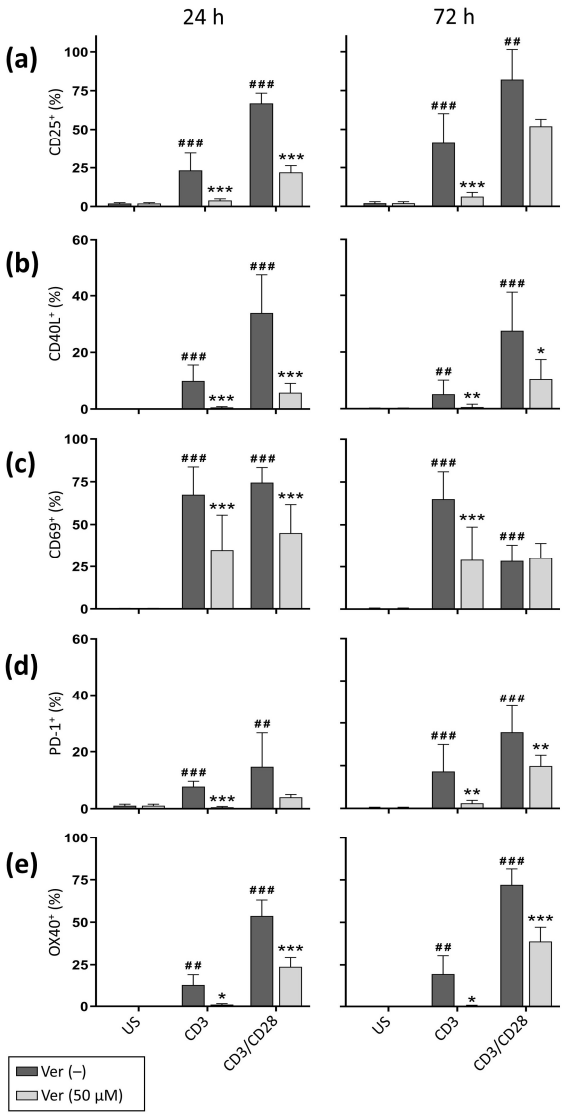

Figure S1. Verapamil decreases the percentage of cells expressing the activation-induced cell surface molecules. Purified T cells were stimulated (CD3 alone or CD3/CD28) in the absence or presence of verapamil (50 μM), and stained for CD25, CD40L, CD69, PD-1, and OX40 after 24 and 72 h of culture. (**a–e**) Proportion of cells expressing a particular activation-induced cell surface molecule (percentage of positive cells, P). Data from 4–12 donors are shown as mean + SD. The significance of the pairwise comparisons between unstimulated and stimulated (CD3 alone or CD3/CD28) cells is indicated with hash signs ($^{\#\#}p < 0.01$, $^{\#\#\#}p < 0.001$). The significance of the pairwise comparisons between cells cultured without and with verapamil is indicated with asterisks (* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$).

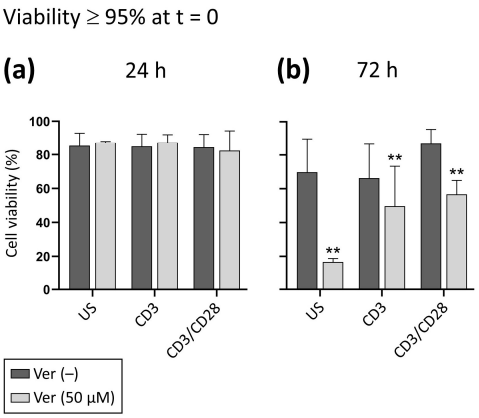

Figure S2. Verapamil compromises T cell viability during long culture periods. Cell viability of purified T cells was assessed after (**a**) 24 h and (**b**) 72 h of culture. T cells were stimulated (CD3 alone or CD3/CD28) in the absence or presence of verapamil (50 μM). Positive staining with the Fixable Viability Dye eFluor 780 was considered as a cell death marker. Data from 6 donors are shown as mean + SD. The significance of the pairwise comparisons between cells cultured without and with verapamil is indicated with asterisks (** $p < 0.01$).